



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

JUNE 2008

COMMUNICATION IS THE NAME OF THE GAME

Meeting A very good turn out of members and visitors enjoyed the talk given by Dick, ZS6BUN, on meteor scatter. Google WSJT and Ping Jockey for more details on this mode of operation.

The next meeting will be held on Saturday 5 July. There will be a 10 minute talk on disaster management in this part of the world given by Chris ZS6COG. Frank ZS6TMV will also give a talk and demo on baluns and traps

SSC Meeting The August meeting will be held at the home of Sid ZS6GQ. More info in the next issue.

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CHILDREN AND PRAYER

LOT'S WIFE:

The Sunday School teacher was describing how Lot's wife looked back and turned into a pillar of salt, when little Jason interrupted,

'My Mommy looked back once, while she was driving,' he announced triumphantly, 'and she turned into a telephone pole!'

GOOD SAMARITAN:

A Sunday school teacher was telling her class the story of the Good Samaritan. She asked the class, 'If you saw a person lying on the roadside, all wounded and bleeding, what would you do?'

A thoughtful little girl broke the hushed silence, 'I think I'd throw up'

DID NOAH FISH?

A Sunday school teacher asked, 'Johnny, do you think Noah did a lot of fishing when he was on the Ark?'

'No,' replied Johnny. 'How could he, with just two worms.'

HIGHER POWER:

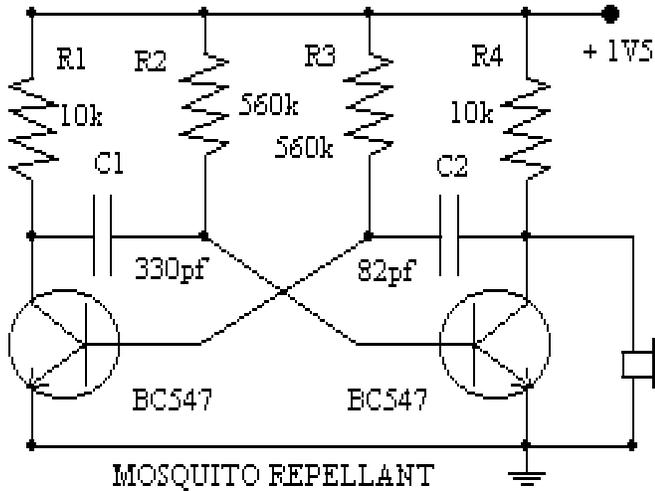
A Sunday school teacher said to her children, 'We have been learning how powerful kings and queens were in Bible times. But, there is a higher power. Can anybody tell me what it is?'

One child blurted out, 'Aces!'

THE LORD IS MY SHEPHERD:

A Sunday School teacher decided to have her young class memorize one of the most quoted passages in the Bible; Psalm 23. She gave the youngsters a month to learn the chapter. Little Rick was excited about the task -- but, he just couldn't remember the Psalm. After much practice, he could barely get past the first line. On the day that the kids were scheduled to recite Psalm 23 in front of the congregation, Ricky was so nervous. When it was his turn, he stepped up to the microphone and said proudly, 'The Lord is my Shepherd, and that's all I need to know.'

Mosquito Repellant - Could be used on a field day



R1,R4 - 10 K Ohm
 R2,R3 - 560 K Ohm
 C1 - 82 PF
 C2 - 330 PF
 T1,T2 - BC547
 Piezo Buzzer (Without internal oscillator)

The Astable Multivibrator, which is generally used as a signal generator, is once again used here to generate the desired frequencies. It is an excellent example of the fact, how versatile simple basic electronic circuit can be.

When T1 is conducting T2 is off and when T2 is conducting, T1 is off. The capacitors C1 and C2 contributes decisively to this ON/OFF cycles for the transistors T1 and T2. The time taken by C1 and C2 to charge and discharge decides the shape of the output waveform. Another important factor in the operation of the circuit is the fact that the transistor goes into conduction only when the base-emitter voltage exceeds 0.7 volts (for silicon transistors). From this basic knowledge we can visualise how the transistors exchange their roles and how the voltage on the collector of each transistor jumps between the lower and upper level, producing a rectangular waveform. If you take a close look at circuit, you will notice that C1 and C2 are not equal. They differ in their values by a factor of four.

The output signal will thus be a non symmetrical waveform. Such a non symmetrical signal contains more high frequency harmonics compared to the normal square wave signal. The output of our circuit will have the basic frequency of 5 KHz along with harmonics of 10, 15 and 20 KHz. If some insects are deaf to frequencies upto 5 KHz, they may react to 10 KHz or 15 KHz or even 20 KHz, one never knows ...

The piezo buzzer used should not have an internal oscillator built into it. The circuit consumes 0.3 ma current, and can give about 1500 hours of nonstop operation.

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Due to increasing products liability litigation, American liquor manufacturers have accepted the FDA's suggestion that the following warning labels be placed immediately on all varieties of alcohol containers:

WARNING:

The consumption of alcohol may cause you to think you can sing.

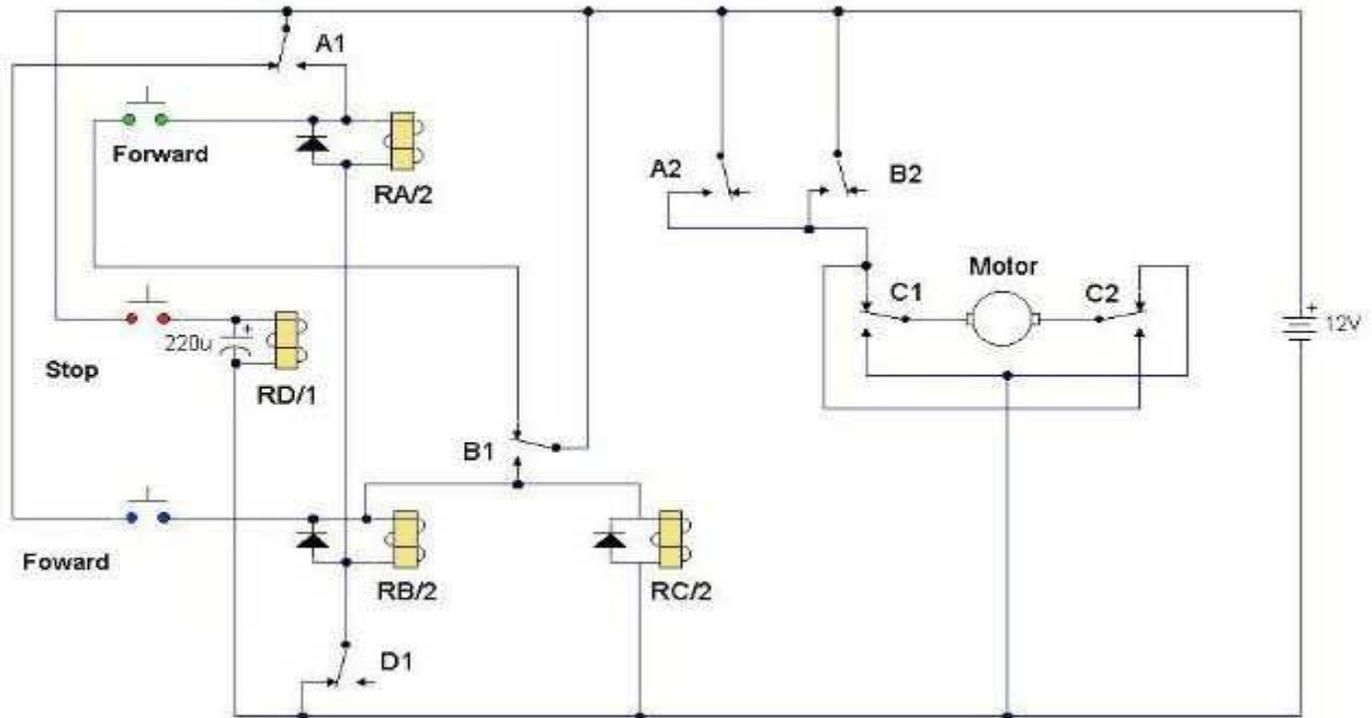
WARNING:

The consumption of alcohol may make you think you are whispering when you are not.

WARNING:

The consumption of alcohol may cause you to tell your friends over and over again that you love them.

DC Motor Reversing Circuit



Description:

A DC motor reversing circuit using non latching push button switches. Relays control forward, stop and reverse action, and the motor cannot be switched from forward to reverse unless the stop switch is pressed first.

Circuit Operation:

Assume that the motor is not running and that all relays are unenergized. When the forward button is pressed, a positive battery is applied via the NC contacts of B1 to the coil of relay RA/2. This will operate as the return path is via the NC contacts of D1. Relay RA/2 will operate. Contacts A1 maintain power to the relay even though the forward button is released. Contacts A2 apply power to the motor which will now run continuously in one direction. If now the reverse button is pressed, nothing happens because the positive supply for the switch is fed via the NC contact A1, which is now open because Relay RA/2 is energized. To Stop the motor the Stop switch is pressed, Relay D operates and its contact D1 breaks the power to relays A and B, (only Relay A is operated at the moment). If the reverse switch is now pressed and released. Relay B operates via NC contact A1 and NC contact D1. Contact B1 closes and maintains power so that the relay is now latched, even when the reverse switch is opened. Relay RC/2 will also be energized and latched. Contact B2 applies power to the motor but as contacts C1 and C2 have changed position, the motor will now run continuously in the opposite direction. Pressing the forward button has no effect as power to this switch is broken via the now open NC contact B1. If the stop button is now pressed. Relay D energizes, its contact D1 breaks power to relay B, which in turn breaks power to relay C via the NO contact of B1 and of course the motor will stop. All very easy. The capacitor across relay D is there to make sure that relay D will operate at least longer than the time relays A,B and C take to release.

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Why I fired my Secretary

Last week was my birthday and I didn't feel very well waking up on that morning.

I went downstairs for breakfast hoping my wife would be pleasant and say, 'Happy Birthday!', and possibly have a small present for me.

As it turned out, she barely said good morning, let alone 'Happy Birthday.'

I thought... Well, that's marriage for you, but the kids... They will remember.

My kids came bounding down stairs to breakfast and didn't say a word. So when I left for the office, I felt pretty low and somewhat despondent.

As I walked into my office, my secretary Jane said, 'Good Morning Boss, and by the way Happy Birthday !'

It felt a little better that at least someone had remembered.

I worked until one o'clock, when Jane knocked on my door and said, 'You know, It's such a beautiful day outside, and it is your Birthday, what do you say we go out to lunch, just you and me.'

I said, 'Thanks, Jane, that's the greatest thing I've heard all day. Let's go !'

We went to lunch. But we didn't go where we normally would go. She chose instead at a quiet bistro with a private table. We had two martinis each and I enjoyed the meal tremendously.

On the way back to the office, Jane said, 'You know, It's such a beautiful day... We don't need to go straight back to the office, Do We ?'

I responded, 'I guess not. What do you have in mind ?'

She said, 'Let's drop by my apartment, it's just around the corner.'

After arriving at her apartment, Jane turned to me and said, 'Boss, if you don't mind, I'm going to step into the bedroom for just a moment. I'll be right back.'

'Ok.' I nervously replied.

She went into the bedroom and, after a couple of minutes, she came out carrying a huge birthday cake Followed by my wife, my kids, and dozens of my friends and co-workers, all singing 'Happy Birthday'.

And I just sat there...

On the couch.....Naked.

CLUB INFORMATION

Postal address PO Box 19937 Sunward Park 1470

Monthly meeting venue

Website <http://www.qsl.net/zs6hvb/>
<http://www.qsl.net/zs6ssc/>

Witwatersrand Rifles HQ
Cnr Barlow and Cavaleros Str
Industries West
Germiston

e-mail zs6hvb@gmail.com

Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45.
Relay - 80M - 3662KHz

First Saturday of the month at 14:30

Committee

Chairman	Doug Wetton	ZS6BXU	011-680-4906
Vice Chairman	Frank van Wensveen	ZS6TMV	082-294-2648
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
Repeater/Packet/Technical	Ton van Dijk	ZS6ANA	011-432-5494
Shacknews Editor	Berridge Emmett	ZS6BFL	011-893-1291
Shacknews Printing	Harry Lautenbach	ZS6LT	011-888-5362
Webmaster	Yvonne van Dijk	ZR6TBL	011-432-5494

Repeater

145.1875 MHz input

145.7875 MHz output

Linked on a Sunday morning during bulletin time to 70 cm - 438.850 MHz